



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera

Sunshine Windows Manufacturing, Inc.
1745 W. 33rd Place
Hialeah, FL 33012

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "2009" Outswing Aluminum Casement Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. CS09-01, titled "Series 2009 Out-Swinging Aluminum Casement Window - Impact Resistant Glass", sheets 1 through 6 of 6, dated 12/03/08, with revision #1 dated 03/06/12, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises** NOA# 10-0407.01 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



Manuel Perez
5/14/12

NOA No. 12-0314.12
Expiration Date: June 17, 2014
Approval Date: May 24, 2012
Page 1

Sunshine Windows Manufacturing, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **CS09-01**, titled "Series 2009 Out-Swinging Aluminum Casement Window – Impact Resistant Glass", sheets 1 through 6 of 6, dated 12/03/08, with revision #1 dated 03/06/12, prepared by manufacturer, signed and sealed by Francisco Hernandez, P.E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94along with marked-up drawings and installation diagram of an outswing aluminum casement window, glazed with 5/16" overall HS laminated glass, prepared by Fenestration Testing Laboratory, Inc. Test Report No. **FTL-5560**, dated 09/04/08, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA # 08-1224.10)

C. CALCULATIONS

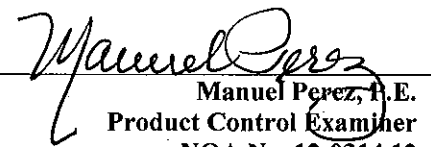
1. Anchor verification calculations, structural and comparative analysis, complying with FBC-2004, dated 12/08/08 and 05/07/09, prepared, signed and sealed by Francisco Hernandez, P.E.
(Submitted under previous NOA# 10-0407.01)
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0624.01** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB Interlayer**" dated 09/08/11, expiring on 12/11/16.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0314.12
Expiration Date: June 17, 2014
Approval Date: May 24, 2012

Sunshine Windows Manufacturing, Inc.


NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

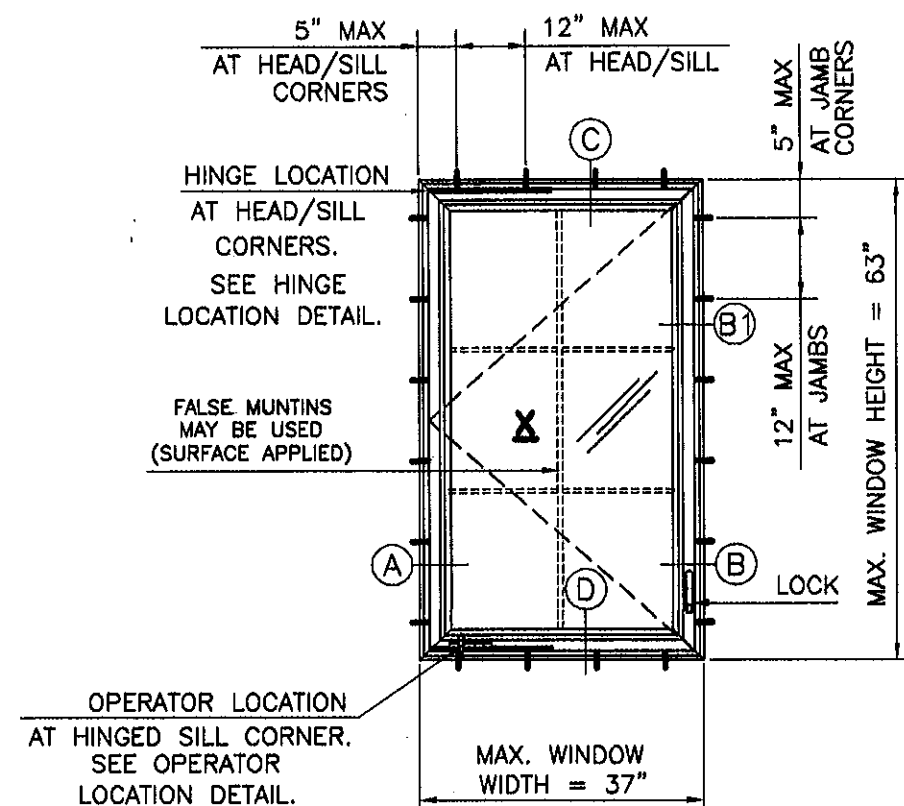
F. STATEMENTS

1. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated March 09, 2012, signed and sealed by Francisco Hernandez, P.E.
2. Laboratory compliance letter for Test Report No. **FTL-5560**, issued by Fenestration Testing Laboratory, Inc., dated 05/12/09, signed and sealed by Michael Wenzel, P.E. *(Submitted under NOA # 08-1224.10)*

G. OTHERS

1. Notice of Acceptance No. **10-0407.01**, issued to Sunshine Windows Manufacturing, Inc. for their Series 2009 Outswing Aluminum Casement Window – L.M.I., approved on 05/19/10 and expiring on 06/17/14.

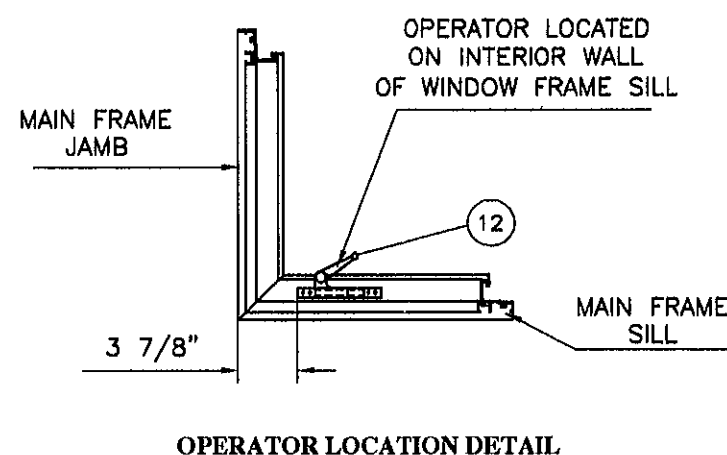
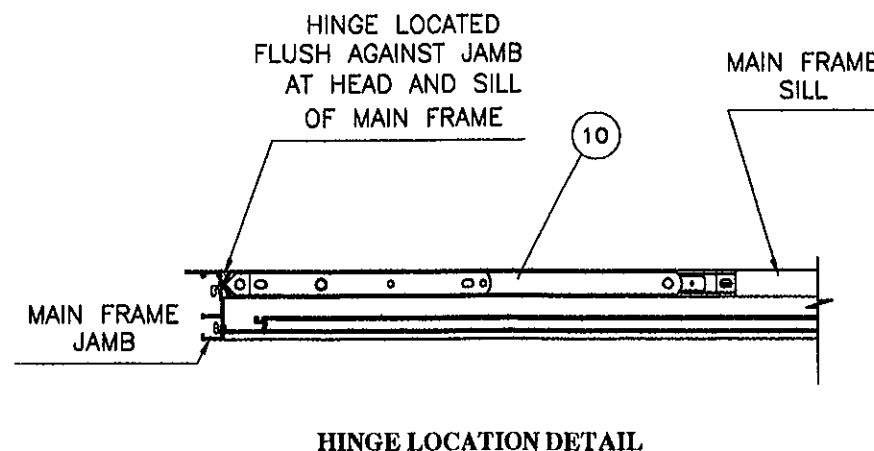

Manuel Perez, P.E.
Product Control Examiner
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SINGLE VENT CASEMENT WINDOW

GENERAL NOTES:

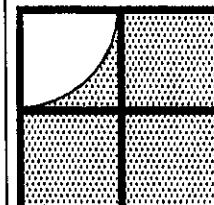
- 1.- THIS PRODUCT MEETS THE REQUIREMENTS OF THE 2010 FBC.
- 2.- SHUTTERS ARE NOT REQUIRED.
- 3.- HINGE LEFT OR HINGE RIGHT CONFIGURATION.
- 4.- FOR NUMBER OF ANCHORS FOR EACH UNIT SIZE REFER TO DESIGN PRESSURES CHART.
- 5.- FOR ATTACHMENT INTO CONCRETE OR MASONRY WITH 1 BY USE 1/4" DIAM. ULTRACON BY ELCO WITH 1 1/4" MIN. EMBEDMENT INTO CONCRETE/MASONRY AND 2 1/2" MIN EDGE DIST.. FOR ATTACHMENT INTO 2 BY OR WOODEN STRUCTURE USE 1/4" DIAM. ULTRACON BY ELCO WITH 1 1/2" MIN. EMBEDMENT INTO WOOD AND 1" MIN EDGE DISTANCE. FOR ATTACHMENT INTO METAL USE 1/4" DIAM. GRADE 5 SHEET METAL SCREWS WITH 1" MIN. EDGE DISTANCE.
- 6.- CONCRETE STRENGTH $f'_c=3,200$ psi MIN., CMU PER ASTM C90., FILLED CMU $f_m=2,000$ psi MIN.
- 7.- USE NON SHRINK NON METALLIC GROUT 3 KSI MIN. AS REQUIRED.
- 8.- WOOD HOST STRUCTURE SHALL BE "SOUTHERN YELLOW PINE" $G=0.55$ OR GREATER DENSITY.
- 9.- THE THICKNESS OF THE STEEL/ALUMINUM HOST STRUCTURE SHALL BE NO LESS THAN 1/8". ALUMINUM SHALL BE 6063-T6. STEEL SHALL BE $F_y=36$ KSI MIN.
- 10.- WOOD BUCKS (BY OTHERS) SHALL BE PROPERLY ATTACHED TO TRANSFER GLAZING SYSTEM LOADS TO THE STRUCTURE AND SHALL BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.
- 11.- ALUMINUM IN CONTACT WITH DISSIMILAR MATERIALS SHALL BE PROTECTED (BY OTHERS) AS SPECIFIED IN SECTION 2003.8.4 OF THE 2010 FBC.



DESIGN PRESSURES CHART - PSF					
IMPACT RESISTANT GLASS					
WINDOW DIMENSION		ANCHORS		5/16" IMPACT GLASS	
		PER HEAD & SILL	PER JAMB	EXT.	INT.
STANDARD SIZES	19 1/8"	2	3	90.00	90.00
	26 1/2"	3		90.00	90.00
	37"	4		90.00	90.00
	19 1/8"	2	4	90.00	90.00
	26 1/2"	3		90.00	90.00
	37"	4		90.00	90.00
	19 1/8"	2	5	90.00	90.00
	26 1/2"	3		90.00	90.00
	37"	4		90.00	90.00
	19 1/8"	2	6	90.00	90.00
	26 1/2"	3		90.00	90.00
	37"	4		90.00	90.00
MODULAR SIZES	24"	3	3	90.00	90.00
	36"	4		90.00	90.00
	24"	3	4	90.00	90.00
	36"	4		90.00	90.00
	24"	3	5	90.00	90.00
	36"	4		90.00	90.00
	24"	3	6	90.00	90.00
	36"	4		90.00	90.00

PRODUCT REVISED
as complying with the Florida
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Expiration Date JUNE 17, 2014
By *Francisco Hernandez*
Miami Dade Product Control

Francisco Hernandez
3-9-12
FRANCISCO HERNANDEZ
FLORIDA PE # 51393

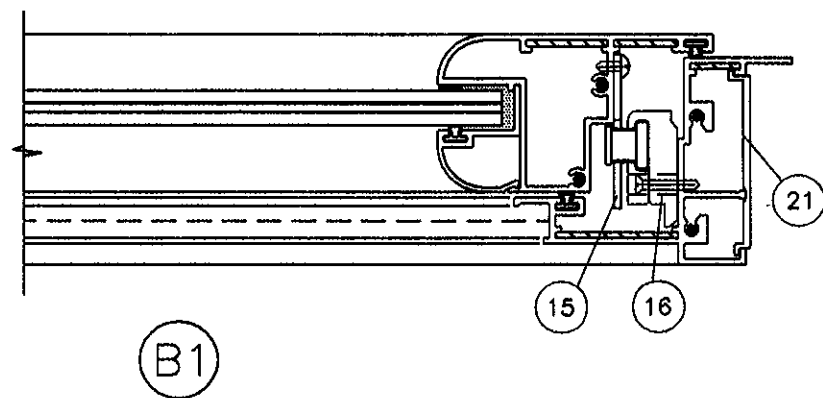
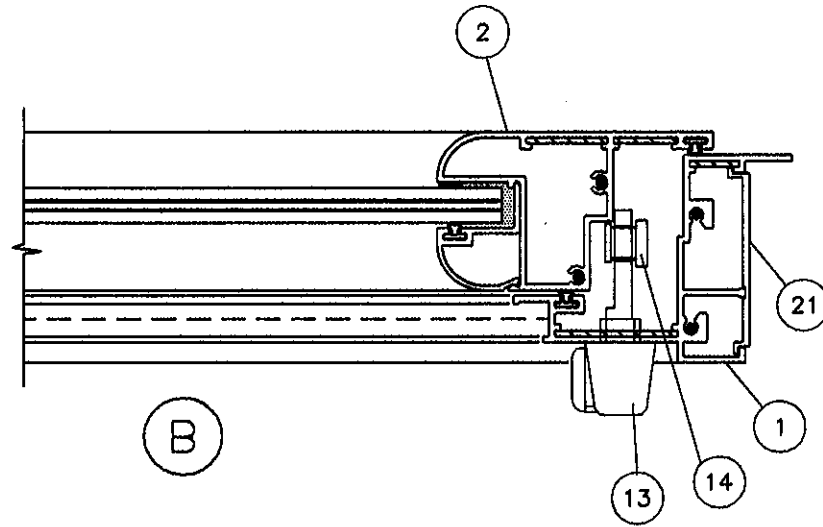
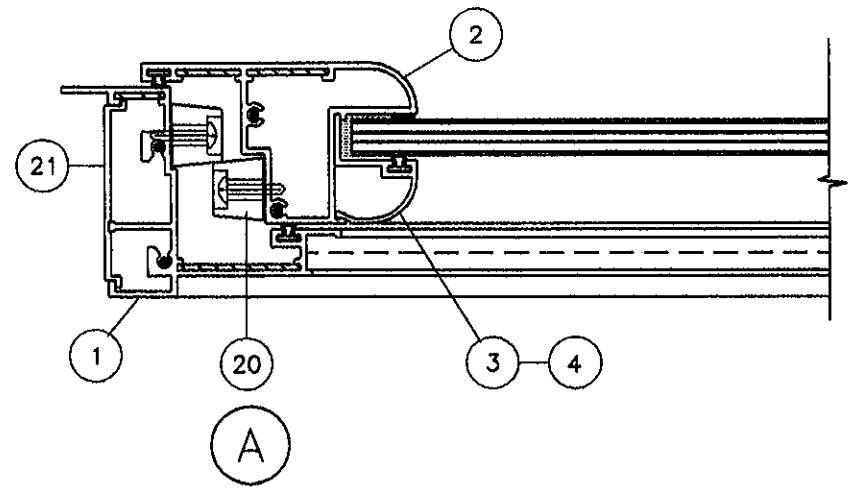


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SERIES 2009 OUT-SWINGING ALUMINUM CASEMENT WINDOW IMPACT RESISTANT GLASS

NO	DATE	REVISION	UPDATED FOR 2010 FBC
1	03-06-12		

DRAWING No.
CS09-01
DATE: 12-03-08
SCALE: NTS
SHEET 1 OF 6

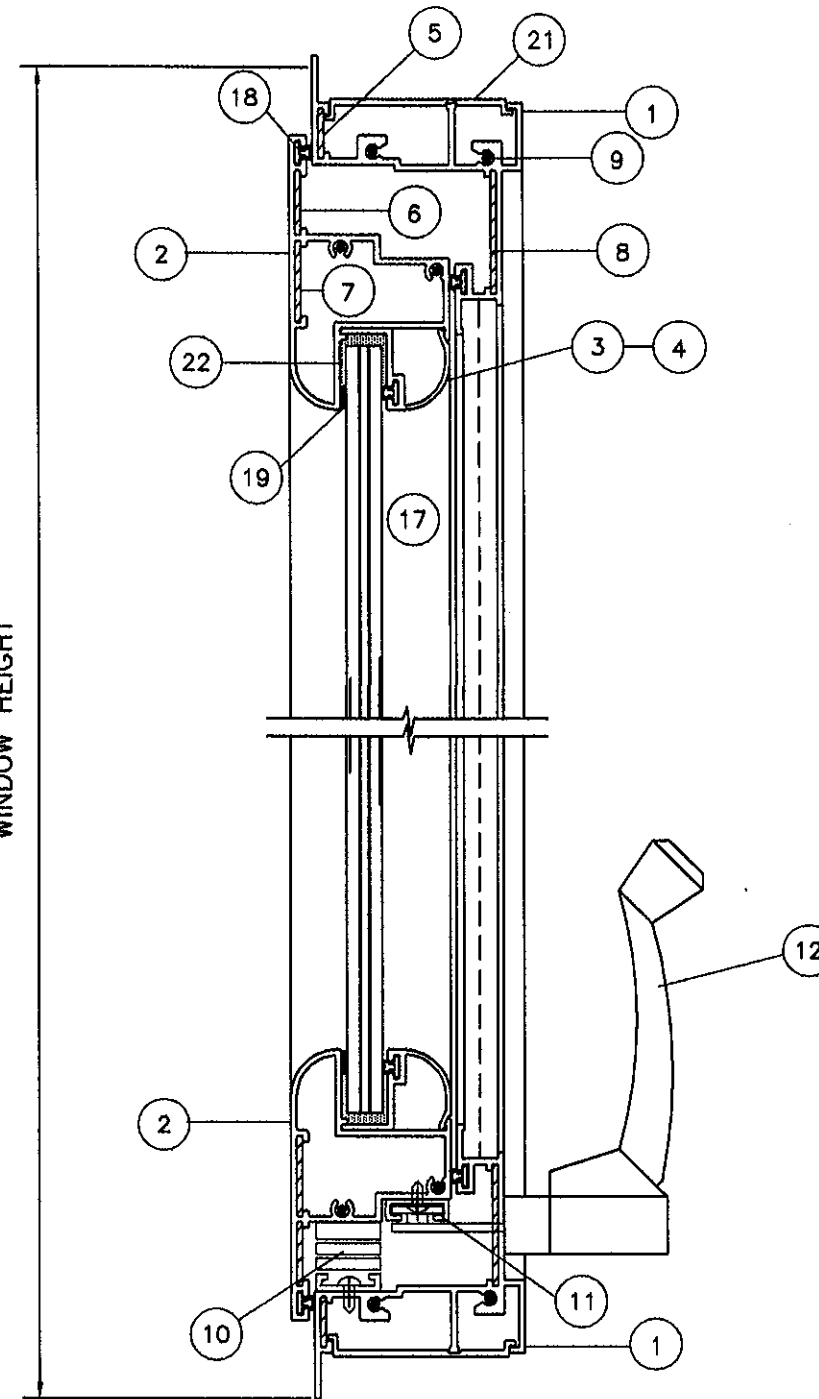


HORIZONTAL SECTIONS

(C)

WINDOW HEIGHT

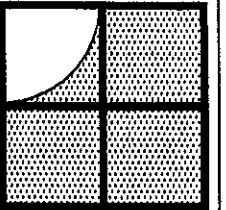
(D)



VERTICAL SECTION

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as complying with the Florida
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Miami Dade Product Control

Francisco Hernandez
3-9-12
FRANCISCO HERNANDEZ
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**SERIES 2009 OUT-SWINGING
ALUMINUM CASEMENT WINDOW
IMPACT RESISTANT GLASS**

NO	DATE	REVISION
1	03-06-12	NO CHANGE THIS SHEET

DRAWING No.
CS09-01
DATE: 12-03-08
SCALE: 1/2"=1"

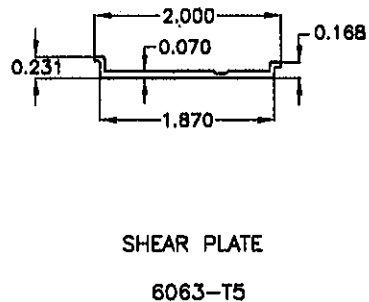
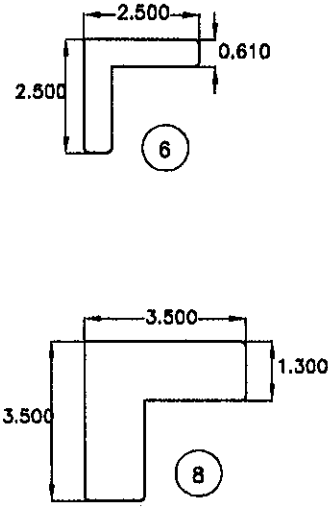
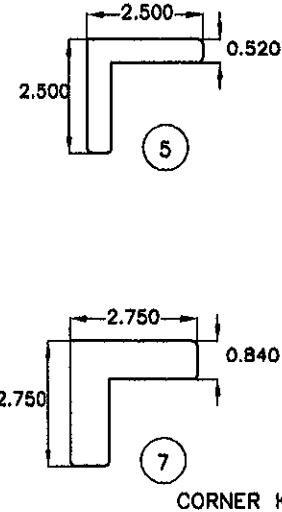
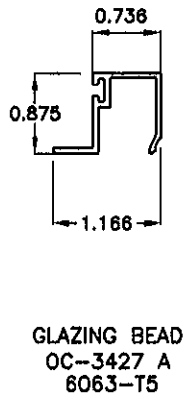
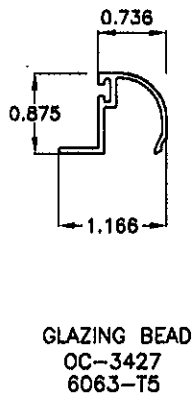
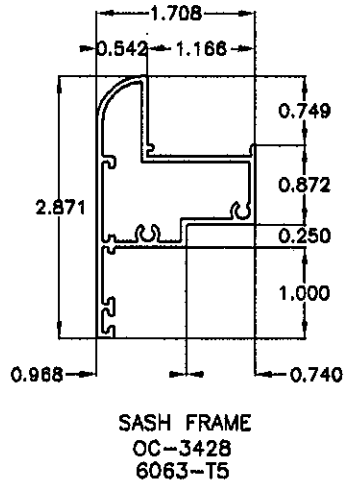
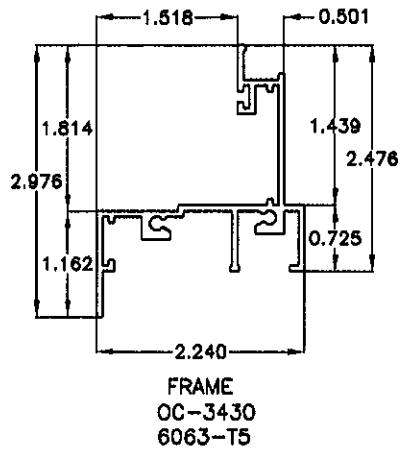
SHEET 2 OF 6

MATERIAL LIST

ITEM #	PART #	QTY	DESCRIPTION	MATERIAL	REMARKS
1	OC-3430	4	FRAME	6063-T5	
2	OC-3428	1	VENT	6063-T5	
3	OC-3427	AS RQD	CURVED GLAZING BEAD	6063-T5	
4	OC-3427 A	AS RQD	RECTANGULAR GLAZING BEAD	6063-T5	
5	-	1	.057" THICK CORNER KEY	STAINLESS STEEL	
6	-	1	.057" THICK CORNER KEY	STAINLESS STEEL	
7	-	1	.057" THICK CORNER KEY	STAINLESS STEEL	
8	-	1	.057" THICK CORNER KEY	STAINLESS STEEL	
9	-	16	ASSEMBLY SCREWS	# 8 X 1" PH SMS	
10	35.13.00	1	EGRESS 4 BAR HINGE	STAINLESS STEEL	TRUTH HARDWARE
11	30175	1	TRACK	STAINLESS STEEL	TRUTH HARDWARE

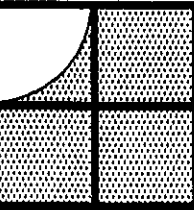
MATERIAL LIST

ITEM #	PART #	QTY	DESCRIPTION	MATERIAL	REMARKS
12	23.01	1	SINGLE ARM OPERATOR	STEEL	TRUTH HARDWARE
13	24.30	1	MULTI-POINT LOCK	ZINC	TRUTH HARDWARE
14	11901-22	1	TIE BAR	STEEL	TRUTH HARDWARE
15	31648	AS RQD	KEEPERS	STEEL	TRUTH HARDWARE
16	03144	AS RQD	TIE BAR GUIDE	NYLON	ULTRA HARDWARE
17	4905	AS RQD	GLAZING BEAD BULB	VINYL	TRUTH HARDWARE
18	E20310KN	AS RQD	WEATHER STRIP BULB	VINYL	ULTRAFAB
19	-	AS RQD	GLAZING TAPE	FOAM	FRANK LOWE
20	-	AS RQD	SNUBBERS	NYLON	
21	-	4	SHEAR PLATE	6063-T5	FULL LENGTH
22	SEALANT	AS RQD	PECORA 895/DOW CORNING 899	SILICONE	



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3-9-12
FRANCISCO HERNANDEZ
FLORIDA PE # 51393

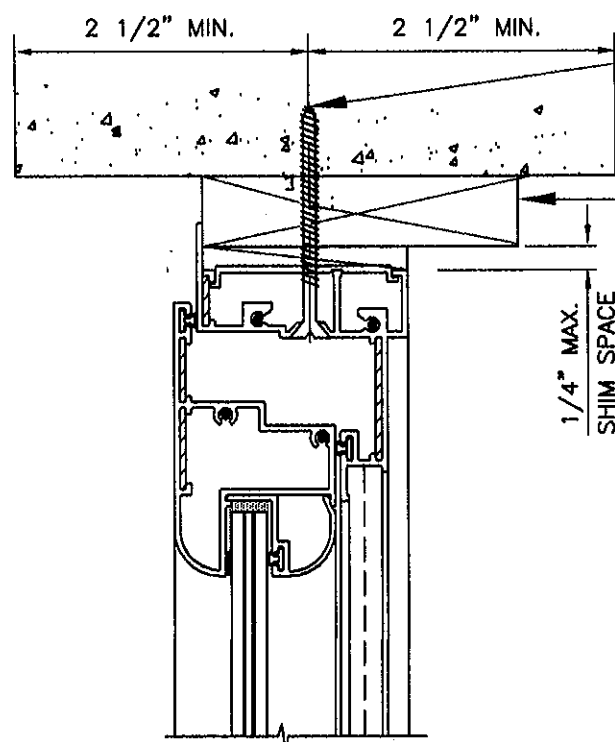


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SERIES 2009 OUT-SWINGING
ALUMINUM CASEMENT WINDOW
IMPACT RESISTANT GLASS

NO	DATE	REVISION	NO	DATE	REVISION
1	03-06-12	NO CHANGE THIS SHEET			

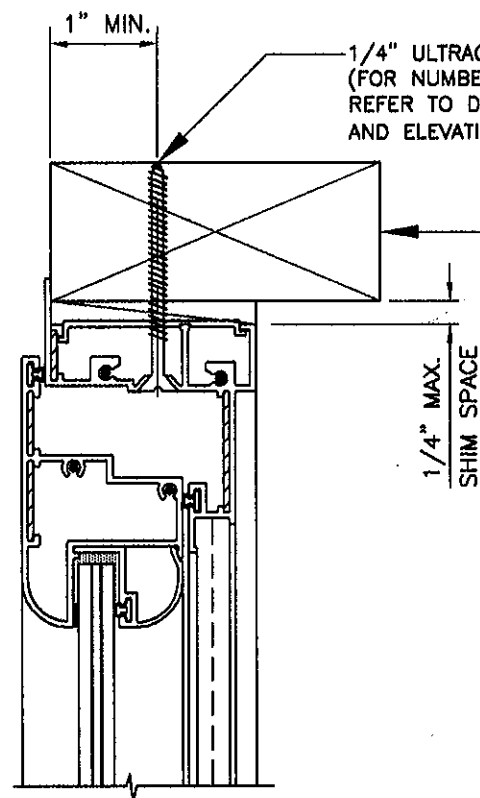
DRAWING No.
CS09-01
DATE: 12-03-08
SCALE: 1/2"=1"
SHEET 3 OF 6



ATTACHMENT TO MASONRY

1/4" ULTRACON WITH 1 1/4" MIN. EMBEDMENT INTO MASONRY THROUGH 1" BY WOOD BUCK (FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO DESIGN PRESSURES CHART AND ELEVATION ON SHEET 1 OF 6).

1" BY WOOD BUCK WOOD BUCKS BY OTHERS MUST BE PROPERLY SEALED AND ANCHORED TO TRANSFER LOADS TO THE STRUCTURE. SHOULD BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.

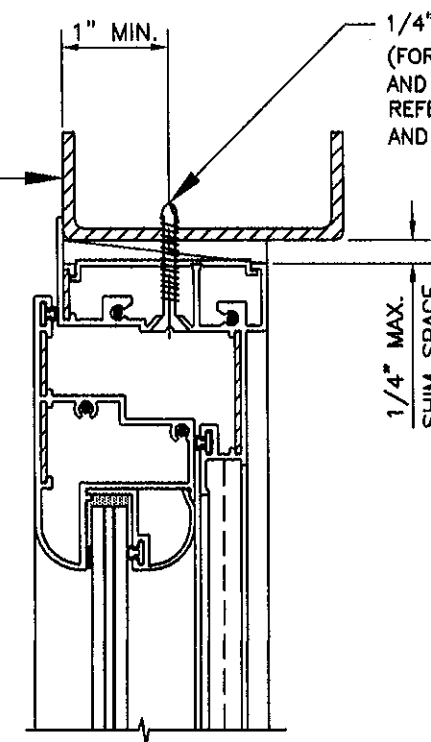


ATTACHMENT TO WOOD

1/4" ULTRACON WITH 1 1/2" MIN. PENETRATION INTO WOOD. (FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO DESIGN PRESSURES CHART AND ELEVATION ON SHEET 1 OF 6).

2" BY WOOD BUCK WOOD BUCKS BY OTHERS MUST BE PROPERLY SEALED AND ANCHORED TO TRANSFER LOADS TO THE STRUCTURE. SHOULD BE APPROVED BY BUILDING OFFICIAL PRIOR TO WINDOW INSTALLATION.

METAL STRUCTURAL MEMBER BY OTHERS (SHALL WITHSTAND ANCHOR SHEAR FORCES) MINIMUM THICKNESS = 1/8"



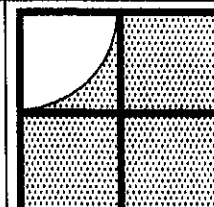
ATTACHMENT TO METAL STRUCTURE DETAIL

1/4" SMS. THROUGH METAL (FOR NUMBER OF ANCHORS AND AND MAX. SPACING REFER TO DESIGN PRESSURES CHART AND ELEVATION ON SHEET 1 OF 6).

TYPICAL SECTIONS AT HEAD

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as complying with the Florida
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By *Manuel Perez*
Miami Dade Product Control

FH
3-9-12
FRANCISCO, HERNANDEZ
FLORIDA PE # 51393



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SERIES 2009 OUT-SWINGING ALUMINUM CASEMENT WINDOW IMPACT RESISTANT GLASS

No.	DATE	REVISION
1	03-06-12	UPDATED FOR 2010 FBC

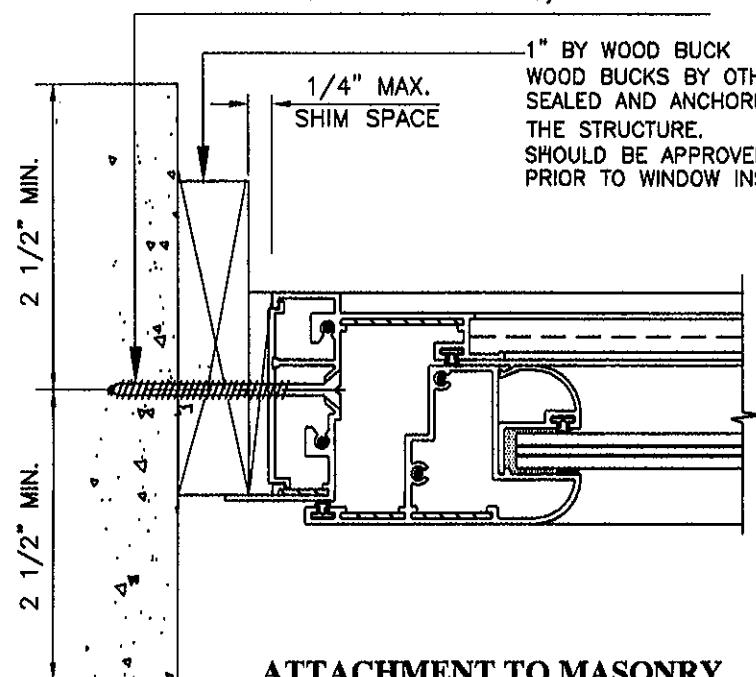
DRAWING No.
CS09-01

DATE: 12-03-08

SCALE: 1/2"=1"

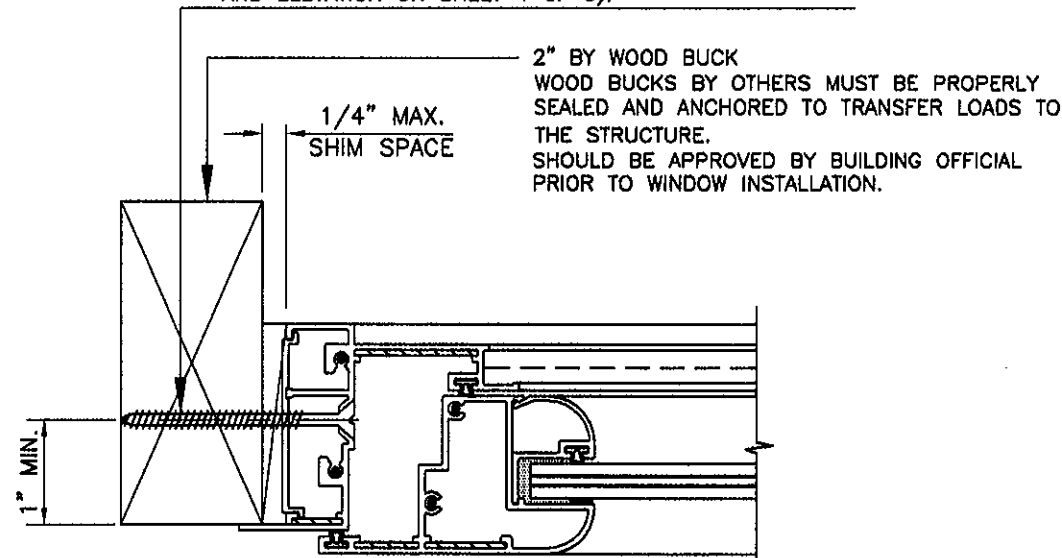
SHEET 4 OF 6

1/4" ULTRACON WITH 1 1/4" MIN. EMBEDMENT INTO MASONRY THROUGH 1" BY WOOD BUCK (FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO DESIGN PRESSURES CHART AND ELEVATION ON SHEET 1 OF 6)



ATTACHMENT TO MASONRY

1/4" ULTRACON BY ELCO WITH 1 1/2" MIN. PENETRATION INTO WOOD. (FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO DESIGN PRESSURES CHART AND ELEVATION ON SHEET 1 OF 6).



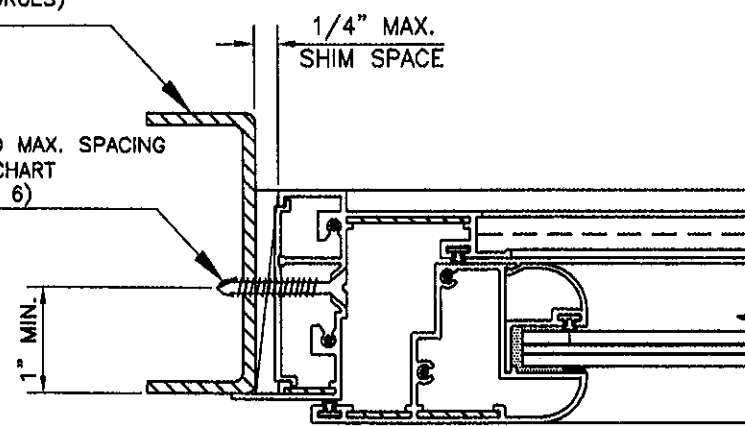
ATTACHMENT TO WOOD

TYPICAL SECTIONS AT JAMBS

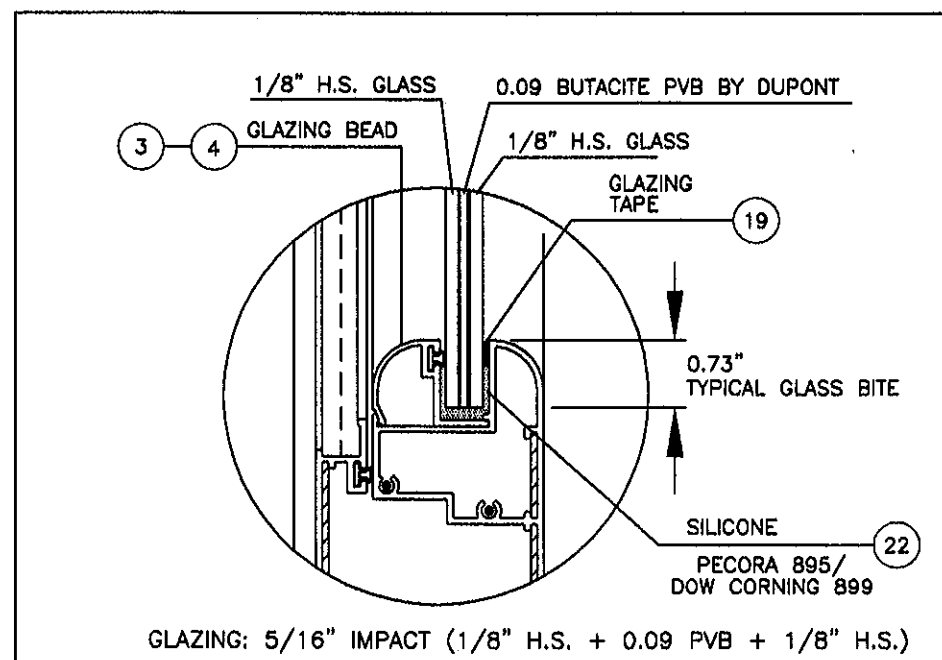
METAL STRUCTURAL MEMBER BY OTHERS (SHALL WITHSTAND ANCHOR SHEAR FORCES)

MINIMUM THICKNESS = 1/8"

1/4" SMS. THROUGH METAL (FOR NUMBER OF ANCHORS AND MAX. SPACING REFER TO DESIGN PRESSURES CHART AND ELEVATION ON SHEET 1 OF 6)



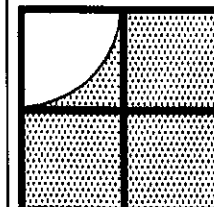
ATTACHMENT TO METAL STRUCTURE



GLAZING DETAIL

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3-9-12
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SERIES 2009 OUT-SWINGING ALUMINUM CASEMENT WINDOW IMPACT RESISTANT GLASS

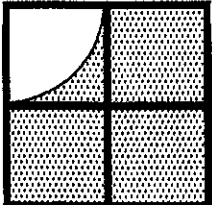
No	DATE	REVISION
1	03-06-12	UPDATED FOR 2010 FBC

DRAWING No.
CS09-01

DATE: 12-03-08

SCALE: 1/2"=1"

SHEET 5 OF 6

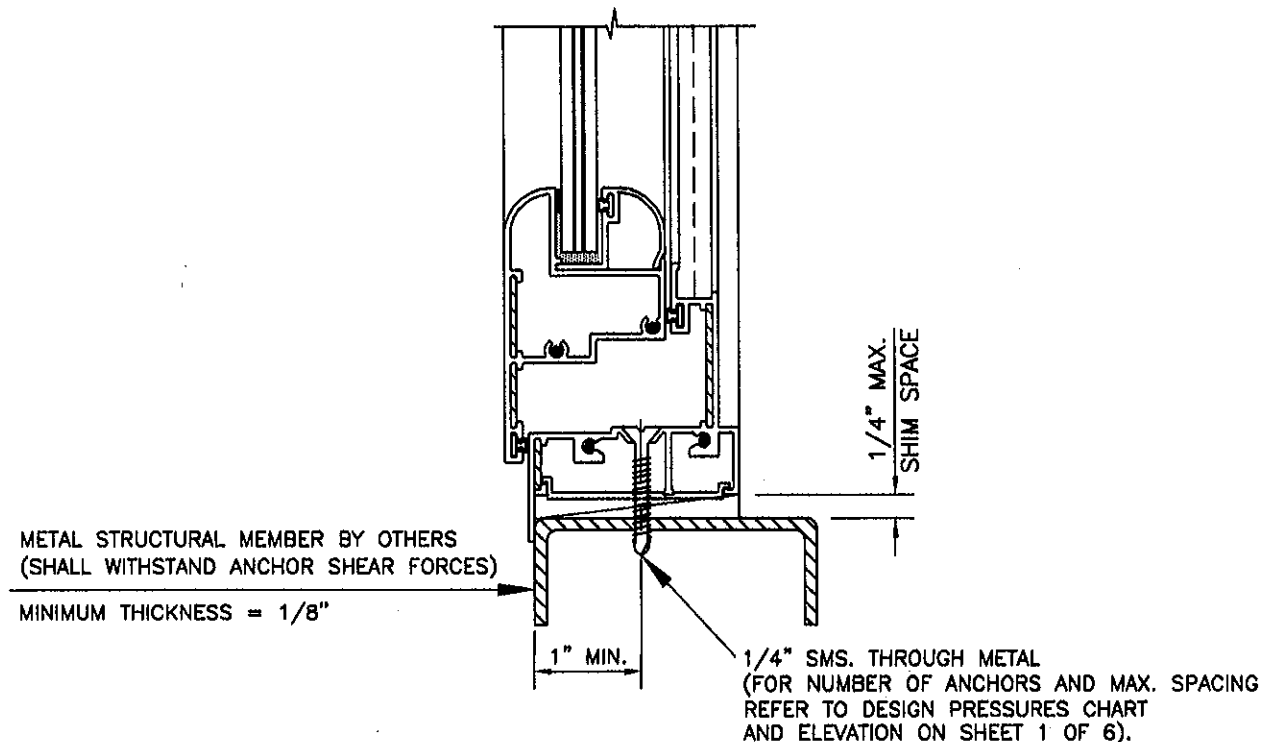


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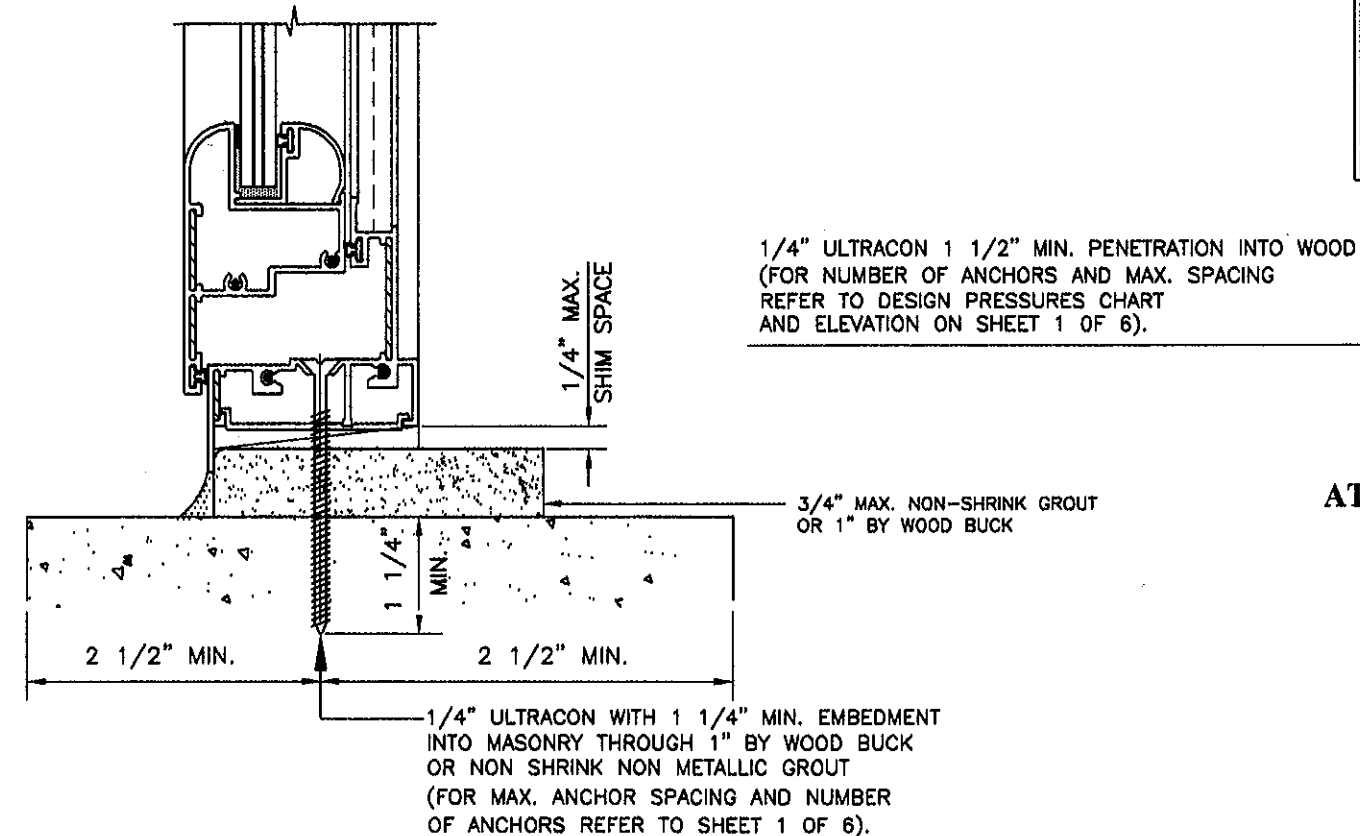
**SERIES 2009 OUT-SWINGING
ALUMINUM CASEMENT WINDOW
IMPACT RESISTANT GLASS**

No	DATE	REVISION
1	03-06-12	UPDATED FOR 2010 FBC

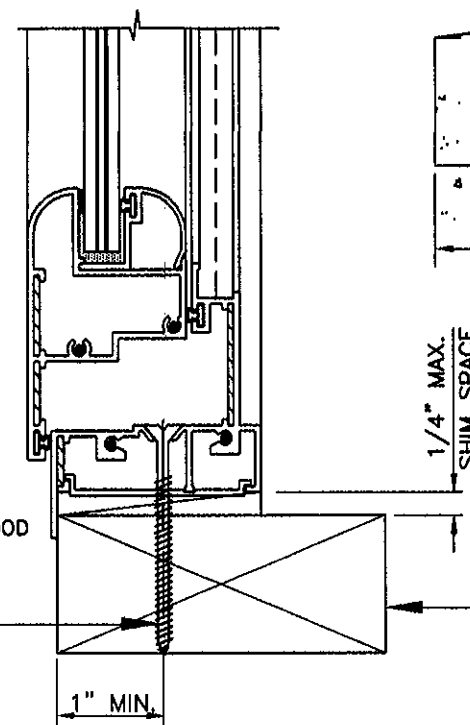
DRAWING No.
CS09-01
DATE: 12-03-08
SCALE: 1/2"=1"
SHEET 6 OF 6



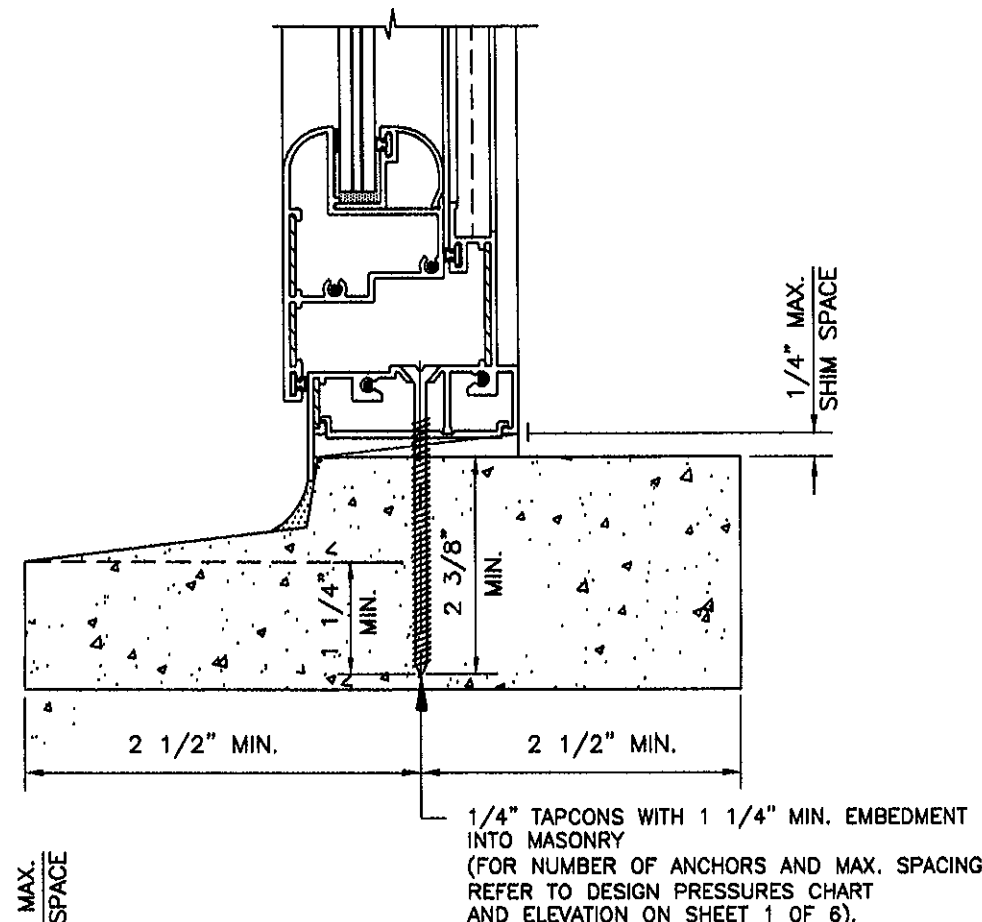
ATTACHMENT TO METAL STRUCTURE



ATTACHMENT TO MASONRY



ATTACHMENT TO WOOD



ATTACHMENT TO PRE-CAST SILL

PRODUCT REVISED
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Building Code
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By: *Francisco Hernandez*
Miami/Dade Product Control

Francisco Hernandez
3-9-12
FRANCISCO HERNANDEZ
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